IQBoard MRQ2

Interactive Education System V3.0

User Manual

锐达互动
Returnstar Interactive

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Statement

This manual is for IQBoard MRQ2 Interactive Education System.

Both Whiteboard and Interactive Whiteboard in this manual refer to IQBoard MRQ2 Interactive Education System.

Use this product strictly according to detailed operation instruction in this manual so as to ensure proper use. Please read this manual carefully before you install this product.

Opening the package means you have agreed to purchase this product, Returnstar will not accept returns of opened packages.

The product specification may be subject to change without prior notice. The sample pictures in this User Manual may differ from the real product.

Returnstar Interactive reserves all rights to charge the fee at anytime for product replacement, revision and update. The information in this manual is subject to regular change without prior notice. Returnstar Interactive will make no warranties with respect to this product and disclaims any warranties, whether express or implied, of merchantability and fitness for a particular purpose.

Trademark Notice

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Recycling

Always return your used electronic products, batteries, and packaging materials to separate collection. This way you help prevent uncontrolled waste disposal and promote the recycling of materials.

Temperature and Humidity Requirements

Storage
Temperature: -40°C ~ 60 °C Humidity: 0% ~ 95%
Operation
Temperature: 0°C ~ 40 °C Humidity: 15% ~ 85%

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Chapter 1 Product Introduction

Based on the traditional IWB, IQBoard MRQ2 Interactive Education System is such a brilliant idea to create a wider interaction for your class. With a size twice as wide as the traditional IWB, resources show, annotation and explanation can be grasped by all listeners at their first sights. The modes switch among Single Board (A/B), Dual Board Sync (A=B), Dual Board Interaction (A&B), Dual Board Extension (A+B) perfectly marry traditional blackboard with interactive whiteboards, easily bringing the familiar teaching ways such as blackboard-writing, calculating, annotating back into the modern classroom.

With IQBoard MRQ2 Interactive Education System and IQBoard Interactive Education Platform, marvelous interactive communicating effects can be achieved in live demonstration, teaching, product exhibition, business conference, video communication, news broadcast, securities evaluation, military command, entertainment, medical consultation, engineering design, competition tactics analysis, weather analysis, etc.

IQBoard MRQ2 Interactive Education System is provided with powerful IQBoard Interactive Education Platform, which makes your operation on interactive whiteboard more convenient. Through IQBoard Interactive Education Platform, various interactive teaching and demonstrating functions can be achieved, such as write, erase, label (in character, line, dimension and angle), drag, zoom, reveal screen, spotlight, screen capture and save, screen record and playback, handwriting recognition, on-screen keyboard, text input, text to speech, hyperlink to video, sound and webpage, and remote conference by NetMeeting. IQBoard Interactive Education Platform also has colorful object animation effects, page switching effects and interactive questions. Therefore, with IQBoard Interactive Education Platform, users can make more interactive courseware by designing unique object animation, adding sound or hyper linking.

IQBoard Interactive Education Platform also includes 500M IQBoard Resource Library covering more than 30 subjects, such as math, physics, chemistry, biology, gymnasium, etc. User can customize the installation by selecting subjects. The software also provide common line, shape, character, symbol, decoration graph, background template, Flash courseware, and other resources. Moreover, the software supports importing various picture files and doc(x), ppt(x), xls(x), pdf files. The page and file created by IQBoard Interactive Education Platform can be saved as and freely converted to various picture files as well as doc(x), ppt(x), xls(x), pdf, html files, etc.

We provide continuous upgrading service for IQBoard Interactive Education Platform. For more information and detailed operation about IQBoard Interactive Education Platform, please refer to IQBoard Interactive Education Platform User Manual in the installation CD.

Chapter 2 Specifications

Technical Specifications	
Model	MRQ2 (82″)
Technology	Infrared
Active Area Dimension (mm)	MRQ2 (82″) × 2 ≥ 3204 × 1182
Aspect Ratio	8:3 by two projectors; more aspect ratios are available
Hotkeys	Provide at least 16 functions including Pens, Erasers, New Page, Save, Next/Previous Page, Start, Orient and Power off etc.
Calibration	4, 9 or 20 points for each board
Overall Size (mm)	MRQ2 (82″) × 2 = 3386 × 1273 (all dimensions ±5mm)
Resolution	32768×32768
Precision	≤ 0.05mm
Colorless Pen	● Switch among pen, mouse and eraser in IQBoard software; ● Two users can write simultaneously anywhere on the board without any interference.
Power Supply	USB (≤500mW for each board)
Operating System	Windows7/8
Video Card	Double-ended video card (2048 x 768 is required)

Chapter 3 Guide for Hardware Installation

Note:

1) *Installaton ways of wall mounting, mobile stand mounting,lifting rail cabinet are available. This guide is to introduce L-Type Wall Mounting only. Other installaion ways, please refer to corresponding installation user guide.*
2) *There are logos for main board or Assistant Board respectively. Please put the main board on the left and Assistant Board on the right for easier use.*

3.1 Wall Mounting（L-type Bracket）

Parts list

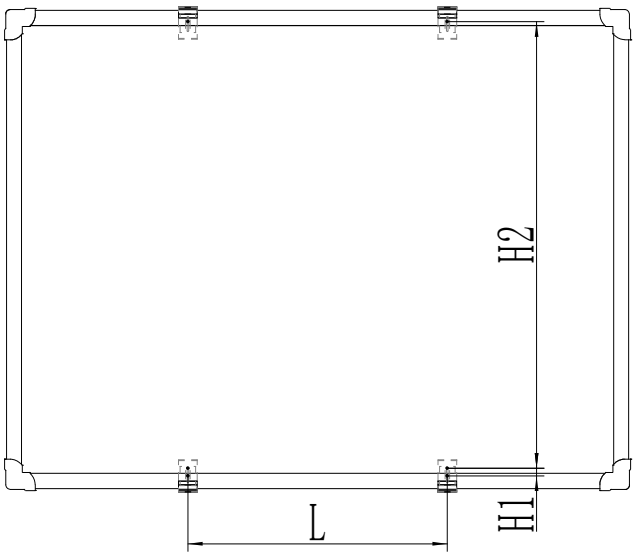
No.	Picture	Item	Qty
1		Flat Cross-tapping Screw	8
2		Wall Anchor	8
3		L-type Bracket	4

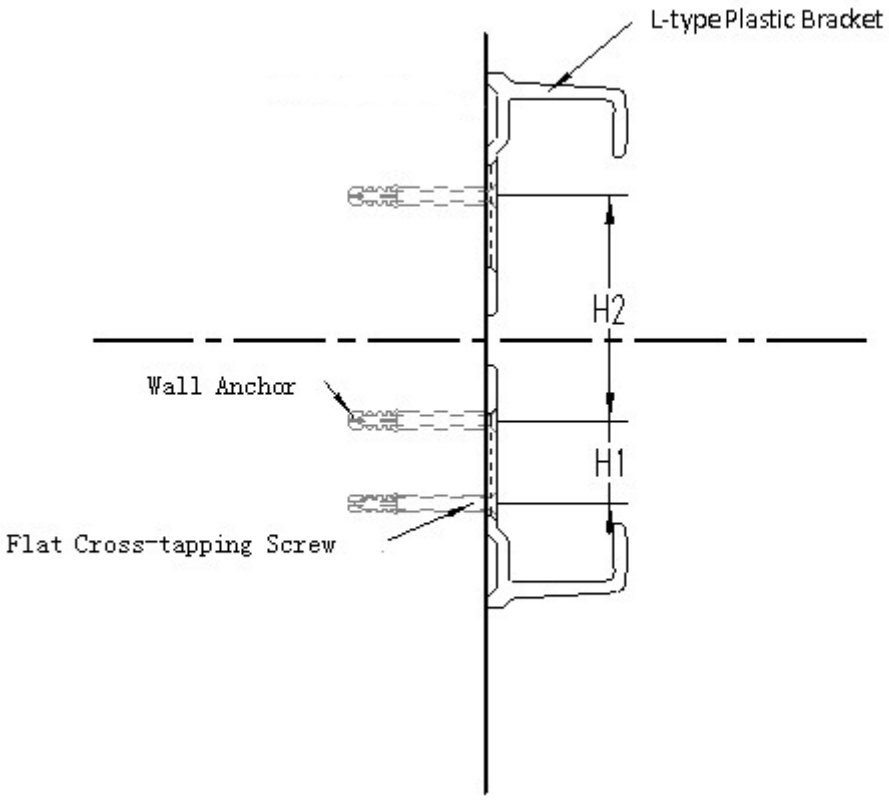
Installation steps

Step 1. Determine the fixed position and height of the IQBoard according to the actual use of the site.

Step 2. Determine the installation height of the bottom L-type Brackets according to the location of IQBoard on the wall. Then determine the installation height of the upper L-type Brackets according to the size of your IQBoard. Make sure when you pull up the upper brackets, IQBoard can be taken out; and when you pull them down, IQBoard frame can be clasped. Two upper/bottom brackets should be on the same height level. You will need 2 screws for each of bottom Brackets, and 1 screw for each of the upper ones. To determine the position of brackets, take an 82” IQBoard for e.g. as below:

IQBoard	L(mm)	H1(mm)	H2(mm)
82”	700	20	1175





Note:

L: Horizontal distance between 2 upper/bottom brackets.

H1: Distance between the 2 screws on the same bottom bracket.

H2: Distance between the screw on the upper bracket and the upper screw on the bottom bracket.

Note: *Please measure L, H1 and H2 according to your own IQBoard size.*

Step 3. Drill 6 holes(70mm in depth) by a 6mm electric drill on the positions of the 6

screws you determined as per above. (2 holes for each of bottom bracket; 1 hole for each of upper bracket)

Step 4. Put a Wall Anchor into each hole, and screw the brackets with M4*70 flat cross-tapping screw.

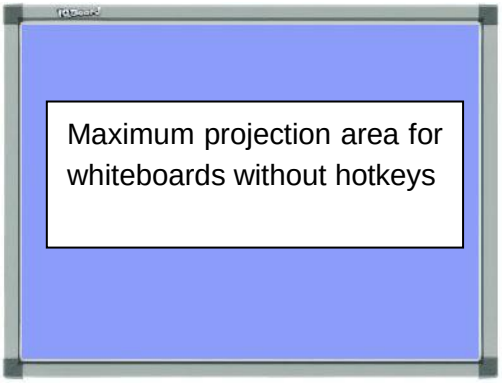
Step 5. Put IQBoard on the fixed 4 L-type Brackets, and let it centered horizontally. Fasten the upside screws and lock the downside screws.

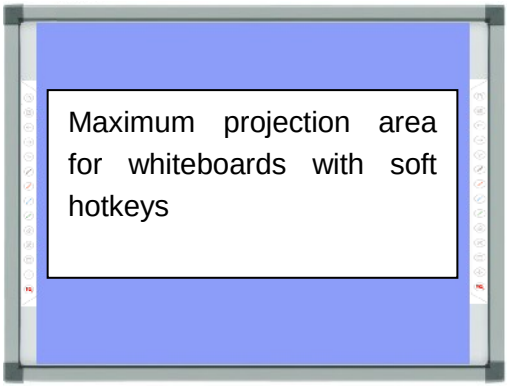
Chapter 4 How to Connect to Computer and Projector

After fixing the main and sub whiteboards, find a connecting port at the bottom right corner of both boards. Plug the USB Standard-B into the connecting port, and plug the USB Standard-A into the available USB port of computer, as follows. External power source is not required. And please connect 2 projectors into the VGA, HDMI or DVI port of your PC video card.

USB Standard-A Plug for connecting the computer	USB Standard-B Plug for connecting whiteboard

Start the projector after connection, and adjust it to make its projection within the active area and centered. Then use the trapezoid rectification function of the projector to make the projection quadrate.





The blue areas are the maximum projection areas. For whiteboards without hotkeys, there should be 1cm margin between projection area and whiteboard inner frame. For whiteboards with soft hotkeys, the projection area should not exceed the hotkeys.

Note:

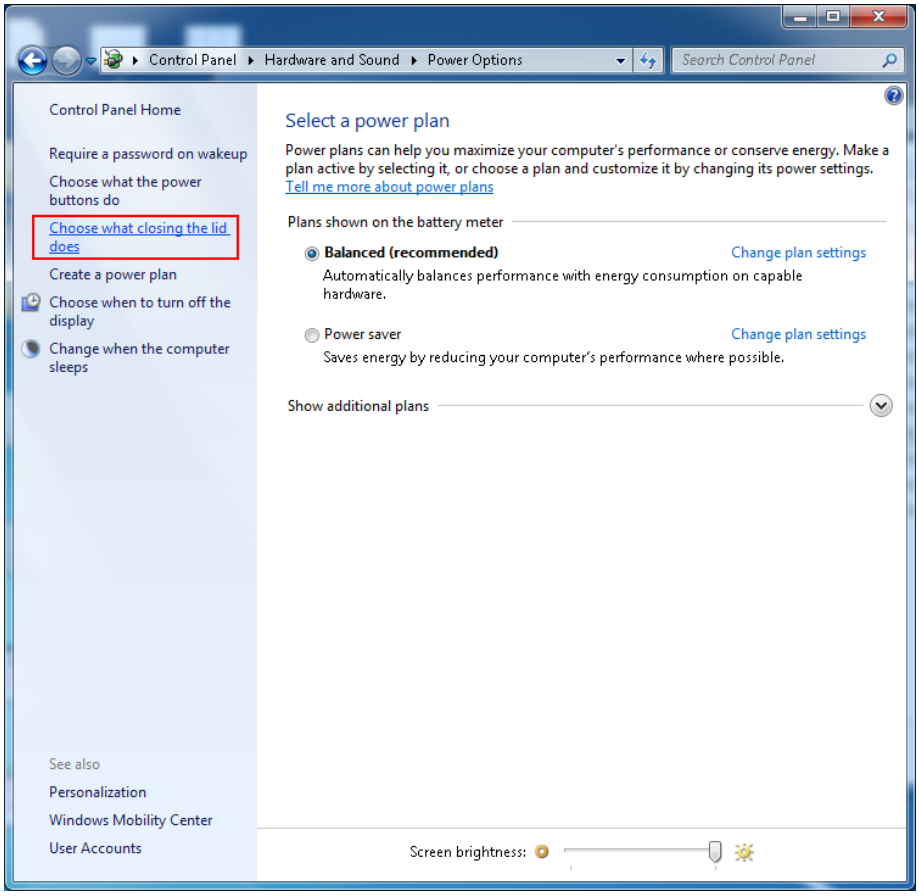
1. In case you use 16:9 whiteboard, please choose the projector supporting the 16:9 projection mode.

2. The projection image must be within the active area of the whiteboard, otherwise the whiteboard cannot work normally.

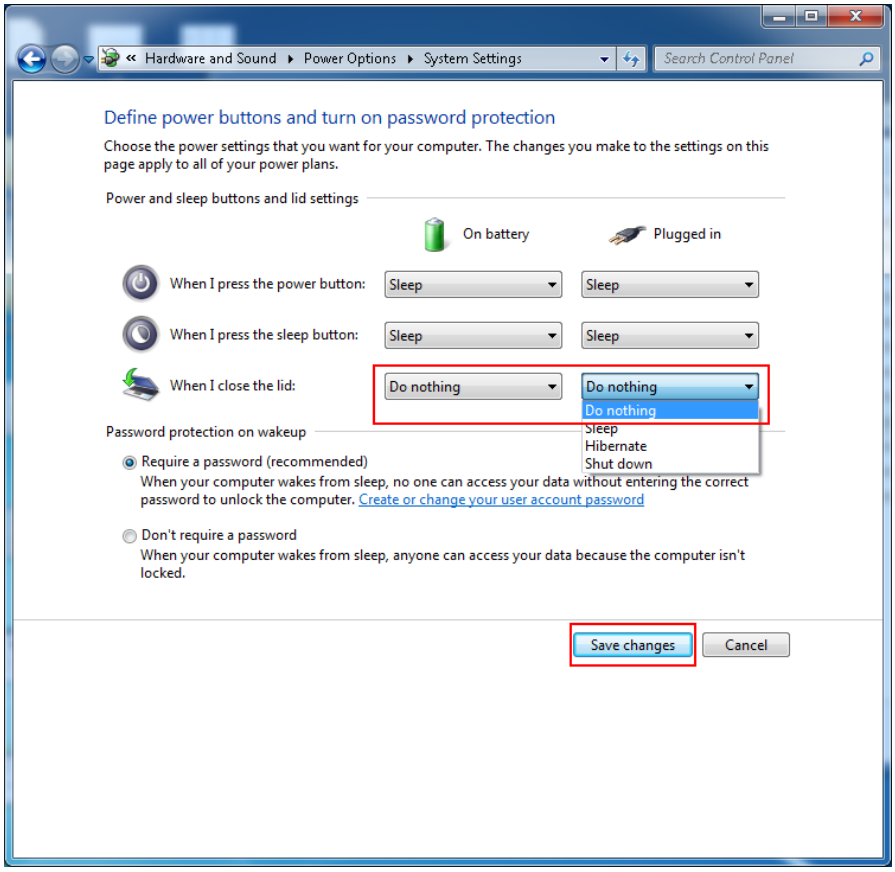
Chapter 5 How to Connect and Use the Projector

Step 1. Start the projector after connection, and adjust it to make its projection within the active area and centered. Then use the trapezoid rectification function of the projector to make the projection quadrate.

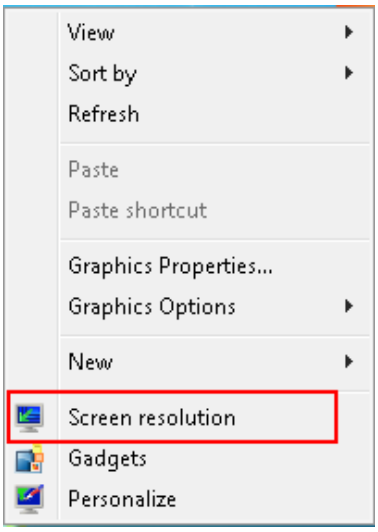
Step 2. If you use the laptop to connect with whiteboard, please select *"Start >Control Panel>Hardware and Sound>Power Options, and go to "Choose what closing the lid does"* settings.


Control Panel ▸ Hardware and Sound ▸ Power Options
Search Control Panel
Control Panel Home
Require a password on wakeup
Choose what the power buttons do
Choose what closing the lid does
Create a power plan
Choose when to turn off the display
Change when the computer sleeps
Select a power plan
Power plans can help you maximize your computer's performance or conserve energy. Make a plan active by selecting it, or choose a plan and customize it by changing its power settings.
Tell me more about power plans
Plans shown on the battery meter
Balanced (recommended)
Change plan settings
Automatically balances performance with energy consumption on capable hardware.
Power saver
Change plan settings
Saves energy by reducing your computer's performance where possible.
Show additional plans
See also
Personalization
Windows Mobility Center
User Accounts
Screen brightness:

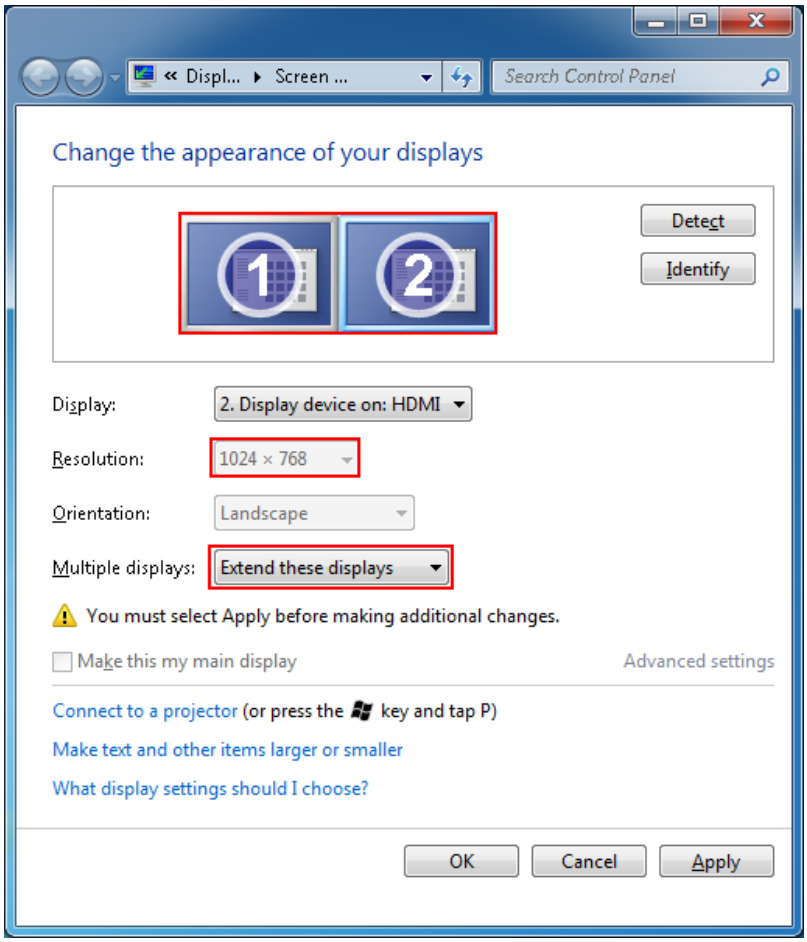
Select "Do nothing", and then click "Save changes".


Hardware and Sound ▸ Power Options ▸ System Settings
Search Control Panel
Define power buttons and turn on password protection
Choose the power settings that you want for your computer. The changes you make to the settings on this page apply to all of your power plans.
Power and sleep buttons and lid settings
On battery
Plugged in
When I press the power button:
Sleep
Sleep
When I press the sleep button:
Sleep
Sleep
When I close the lid:
Do nothing
Do nothing
Do nothing
Sleep
Hibernate
Shut down
Password protection on wakeup
Require a password (recommended)
When your computer wakes from sleep, no one can access your data without entering the correct password to unlock the computer. Create or change your user account password
Don't require a password
When your computer wakes from sleep, anyone can access your data because the computer isn't locked.
Save changes
Cancel

Step3. Right-click the blank of desktop and then select "*Screen Resolution".*



Step4. Choose "*Extended Screen"* to display, and then the screen 1 will be displayed on the Main Board, and screen 2 on the Assistant Board. The screen resolutions of 2 PCs or laptops are required to set the same, and 1024*768 is recommended.


« Displ... ▸ Screen ...
Search Control Panel
Change the appearance of your displays
Detect
Identify
1
2
Display:
2. Display device on: HDMI
Resolution:
1024 × 768
Orientation:
Landscape
Multiple displays:
Extend these displays
You must select Apply before making additional changes.
Make this my main display
Advanced settings
Connect to a projector (or press the key and tap P)
Make text and other items larger or smaller
What display settings should I choose?
OK
Cancel
Apply

Chapter 6 How to Install and Uninstall Driver

6.1 How to Install Driver

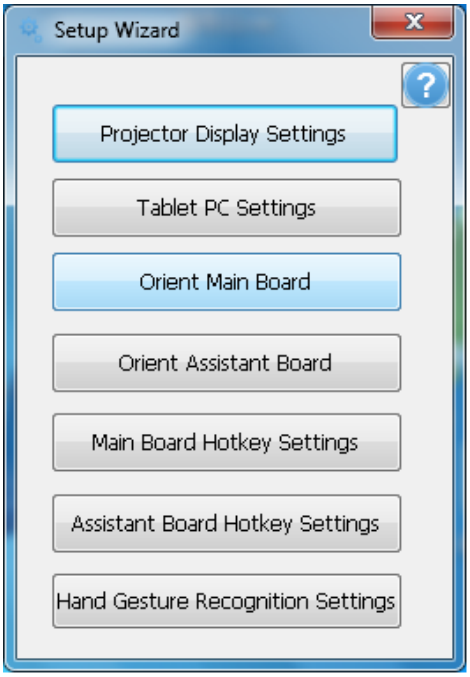
Run *"IQBoard MRQ2 Drivers V3.0.exe"* in the installation CD, and install the drivers according to the prompt. The computer will automatically find a new hardware and install the driver.

6.2 How to Uninstall Driver

Select *"Start > Programs > IQBoard MRQ2 Drivers V3.0 > Uninstall"* to uninstall. You can also open Control Panel, select *"Add/Remove Programs"*, and in the list of currently installed Programs, select *"IQBoard MRQ2 Drivers V3.0"*, then press the *"Change/Remove"* button to remove the driver.

Chapter 7 How to Setup IQBoard

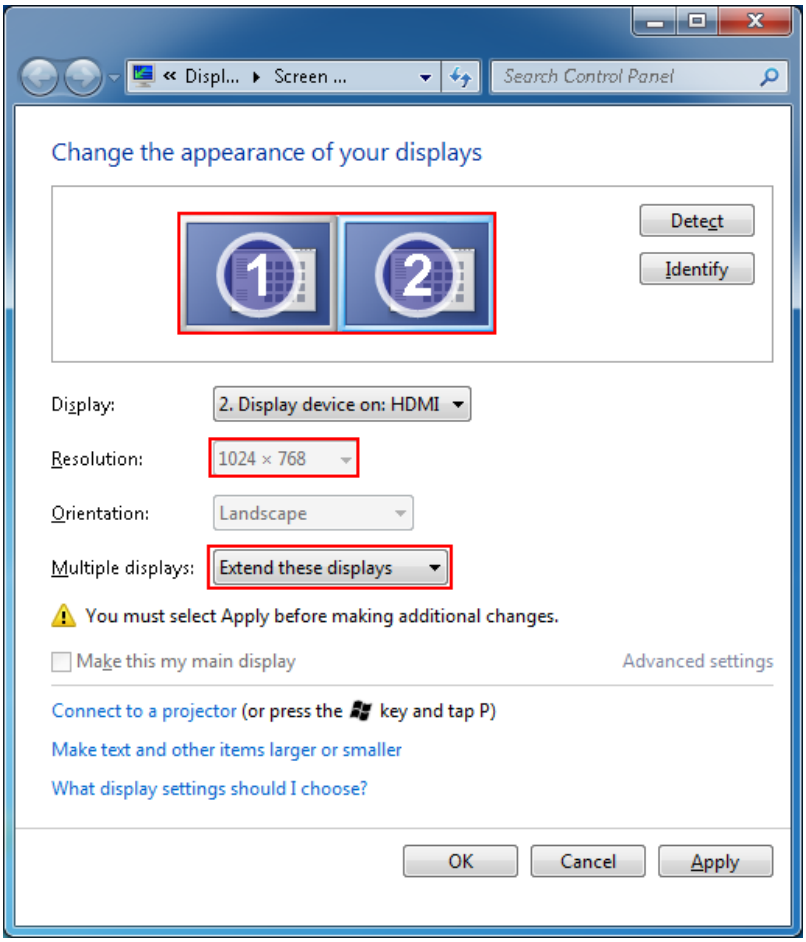
Select *"Start > Programs > IQBoard MRQ2 Drivers V3.0 >Setup Wizard",* and the setup wizard window will appear on the main board as follow.



At the first time you use IQBoard MRQ2, you need to complete Projector Display Settings, Tablet PC Settings and Orient Settings.
If the position of pen or finger doesn't match the position of cursor after working environment has been changed, you can orient the main board and Assistant Board individually, so the moving track of the pen (finger) can match the cursor.

7.1 Projector Display Settings

Click *"Setup Wizard>Projector Display Settings",* Choose the projecting screen to *Extended Screen*, and project screen 1 on the Main Board, screen 2 on the Assistant Board, shown as below:

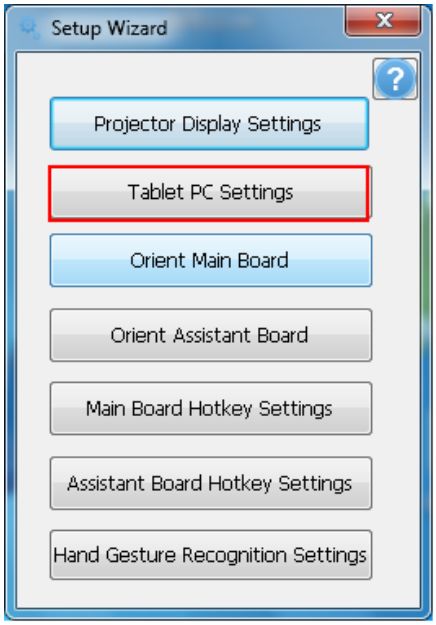


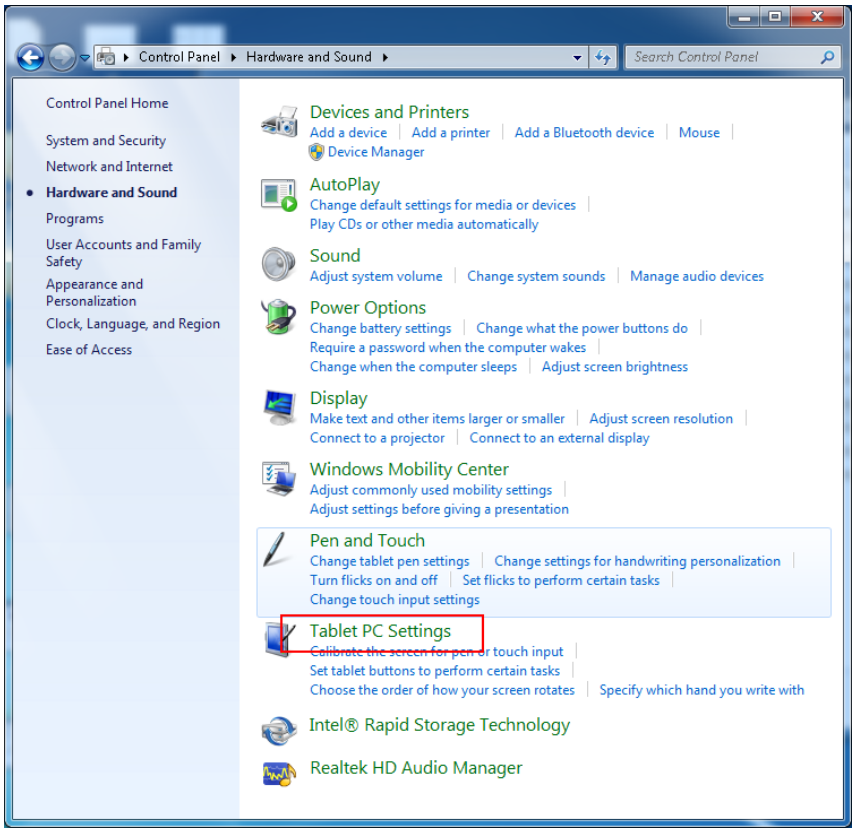
7.2 Tablet PC Settings

Step 1:

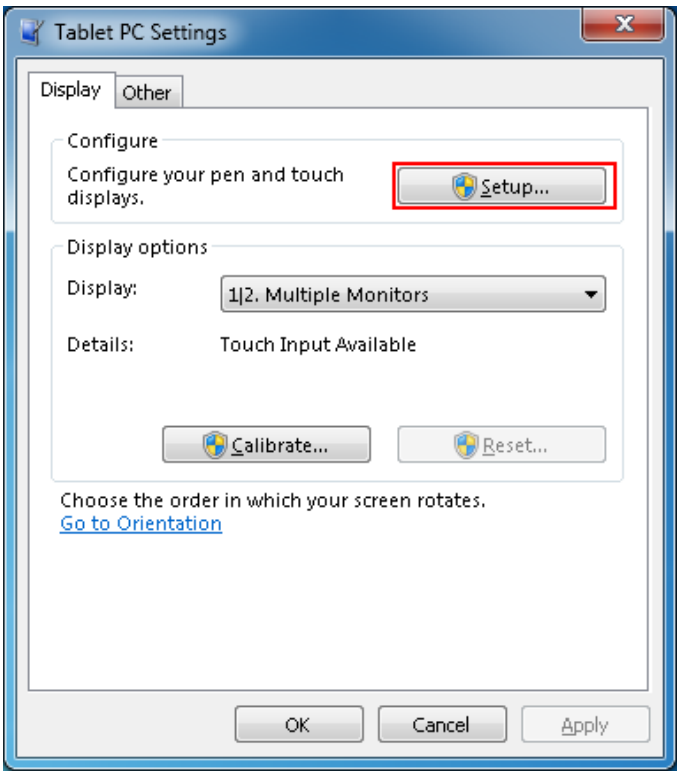
1) Click *"Setup Wizard> Tablet PC Settings" or*

2) Select *"Start> Control panel> Hardware and Sound> Tablet PC Settings".*

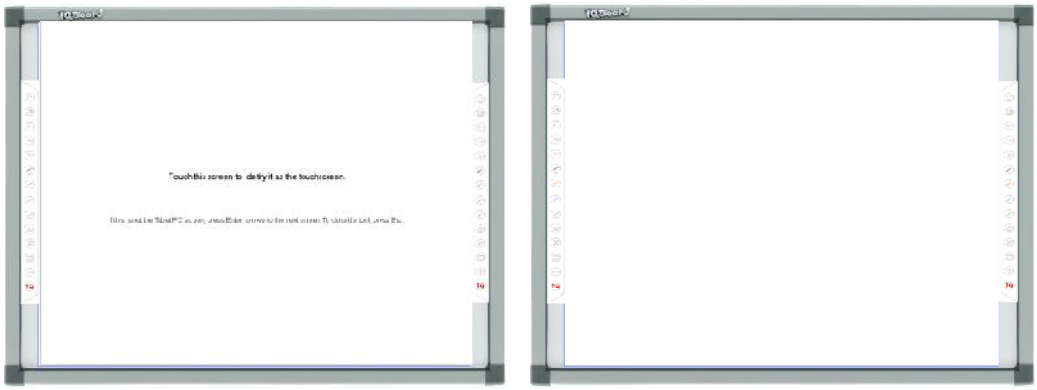



Control Panel ▸ Hardware and Sound ▸
Search Control Panel
Control Panel Home
System and Security
Network and Internet
Hardware and Sound
Programs
User Accounts and Family Safety
Appearance and Personalization
Clock, Language, and Region
Ease of Access
Devices and Printers
Add a device | Add a printer | Add a Bluetooth device | Mouse
Device Manager
AutoPlay
Change default settings for media or devices
Play CDs or other media automatically
Sound
Adjust system volume | Change system sounds | Manage audio devices
Power Options
Change battery settings | Change what the power buttons do
Require a password when the computer wakes
Change when the computer sleeps | Adjust screen brightness
Display
Make text and other items larger or smaller | Adjust screen resolution
Connect to a projector | Connect to an external display
Windows Mobility Center
Adjust commonly used mobility settings
Adjust settings before giving a presentation
Pen and Touch
Change tablet pen settings | Change settings for handwriting personalization
Turn flicks on and off | Set flicks to perform certain tasks
Change touch input settings
Tablet PC Settings
Calibrate the screen for pen or touch input
Set tablet buttons to perform certain tasks
Choose the order of how your screen rotates | Specify which hand you write with
Intel® Rapid Storage Technology
Realtek HD Audio Manager

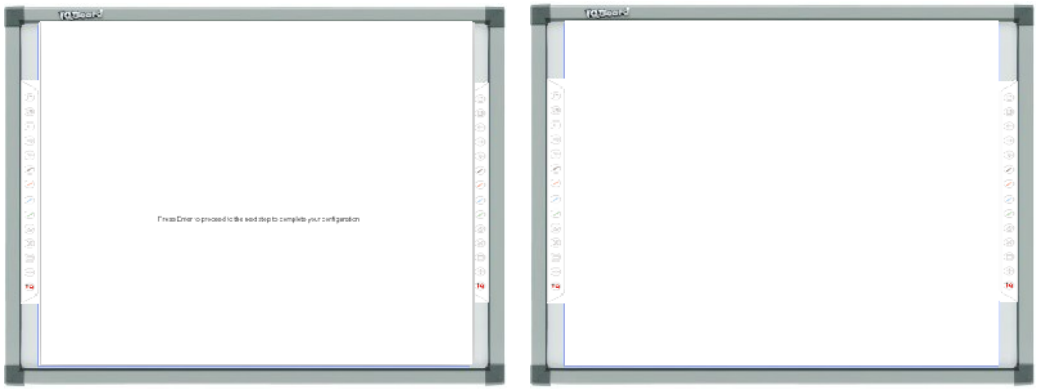
Step 2: Click "*Tablet PC Settings>Setup*" as follow:



Step 3: Touch the main board according to the prompt, and then press Enter key to complete the settings after the prompt changed.



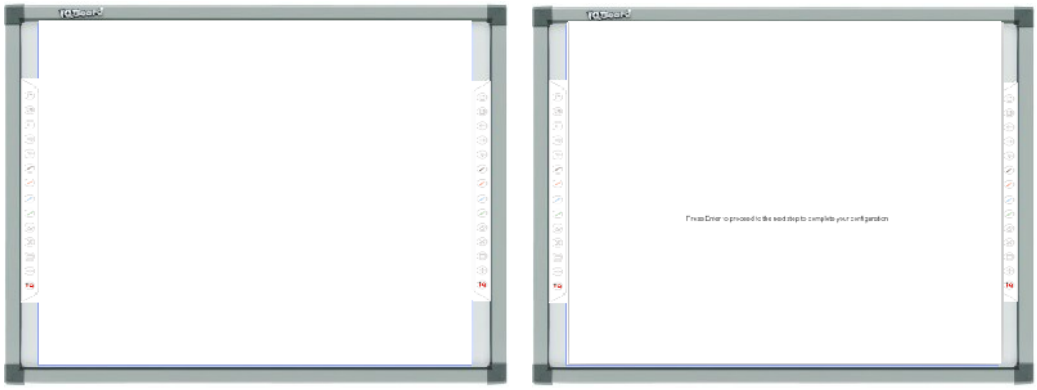
Touch the main board



Press Enter key to complete the settings of main board

Step 4: After completing settings of main board, then set the Assistant Board according to the prompt on it.

Touch the Assistant Board



Press Enter key to complete the settings of Assistant Board

Note:

1. If there's no prompt change when touching the Assistant Board, please confirm the connection among main board, Assistant Board and computer are correct, or restart the computer.

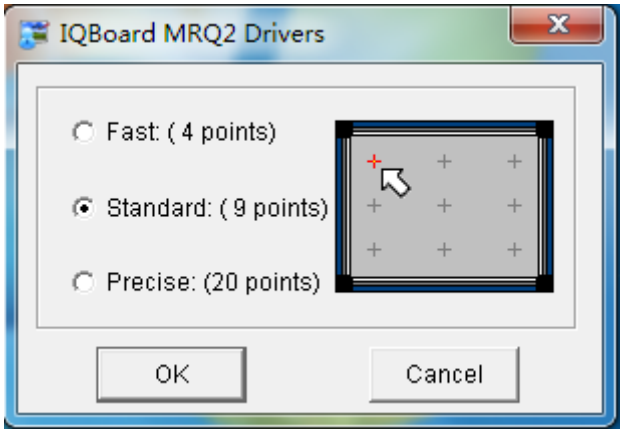
2. If you use laptop to connect the main and Assistant Boards, when the system prompts "Press Enter key to continue and complete your settings", you can open the laptop first, press Enter key and then close the laptop to continuing the settings or you can connect an external keyboard to press the Enter key. The projection image must be within the active area of the whiteboard, otherwise the whiteboard cannot work normally.

7.3 Orientation

At the first time you use IQBoard MRQ2, you need to orient it, so the moving track of the pen (finger) can match the cursor. You can select 4 points, 9 points or 20 points orientation. Normally 9 points orientation is adopted. After the whiteboard is oriented, you don't need to re-orient under the same environment.

Orientation of Main Board

Step1. Select "*Setup Wizard > Orient Main Board"*. Then the Orientation Points Selection window appears as follow.

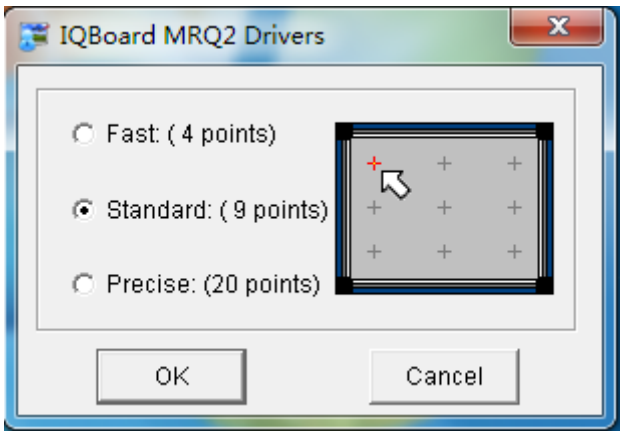


Step2. Select one of the Orientation Points and click *"OK"*, the Orientation interface appears as follow.

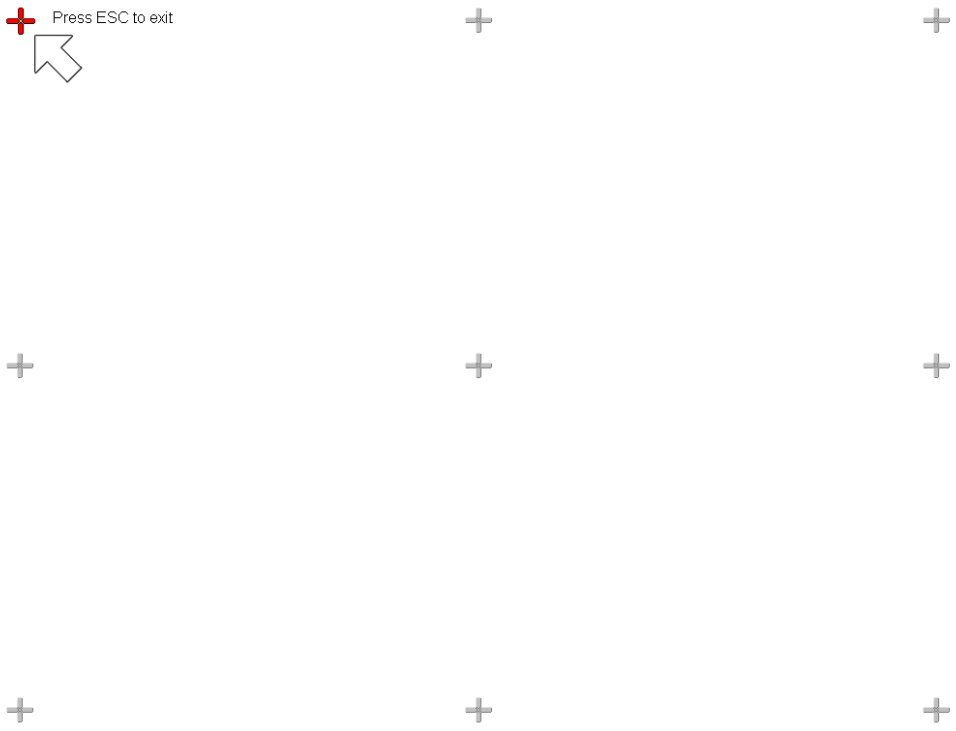
Step3. Follow the on-screen instructions, press the center of each cross accurately with the pen or finger tip.

Orientation of Assistant Board

Step1. Select "*Setup Wizard* > *Orient Assistant Board"*. Then the Orientation Points Selection window appears as follow.



Step2. Select one of the Orientation Points and click *"OK"*, the Orientation interface appears as follow.



Step3. Follow the on-screen instructions, press the center of each cross accurately with the pen or finger tip.

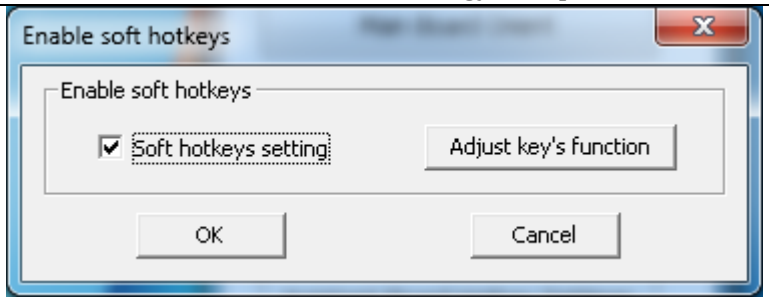
> ***Note:***
>
> *1. If you did not locate the accurate central point or clicked the wrong point, or the next fixed point appeared without press, please press "ESC" on the keyboard to exit this orientation and re-orient. Otherwise you can't operate the whiteboard accurately.*
>
> *2. Please make your pen (finger) upright when orienting.*
>
> *3. In case the relative position of the whiteboard and projector is changed, or the driver or the monitor resolution is altered, please re-orient.*

7.4 Hotkey Settings

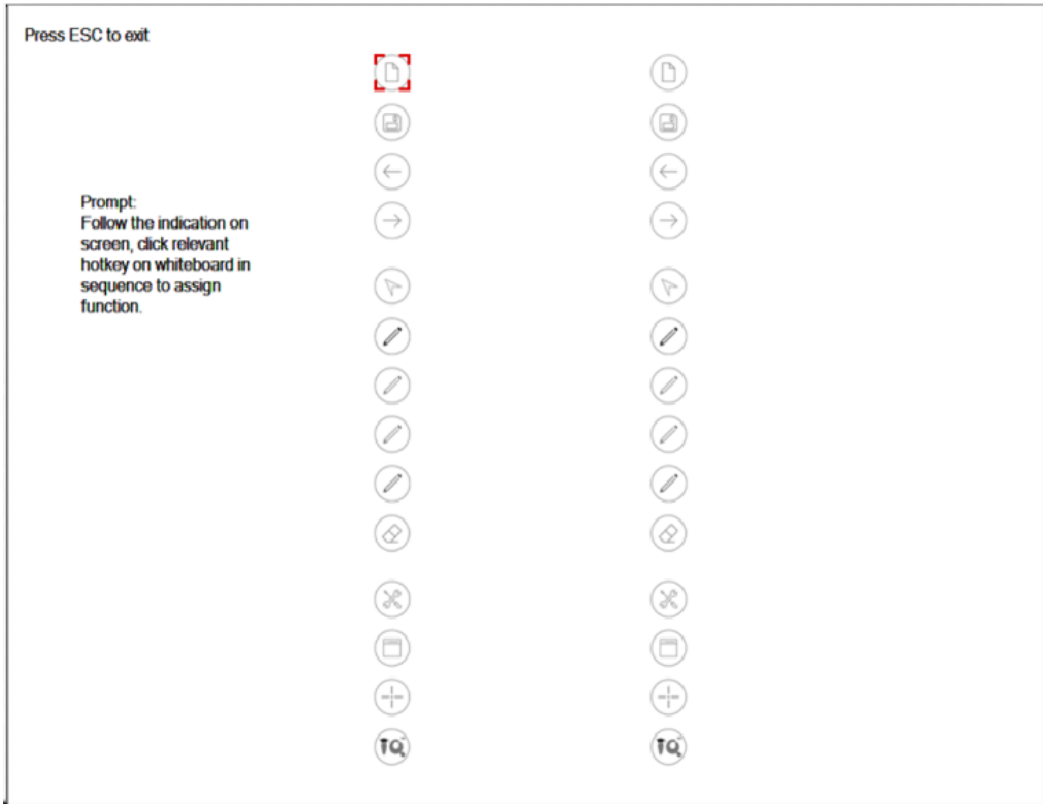
At the first time you use the whiteboard with soft hotkeys, you need to set these hotkeys.

Hotkey Settings of Main Board

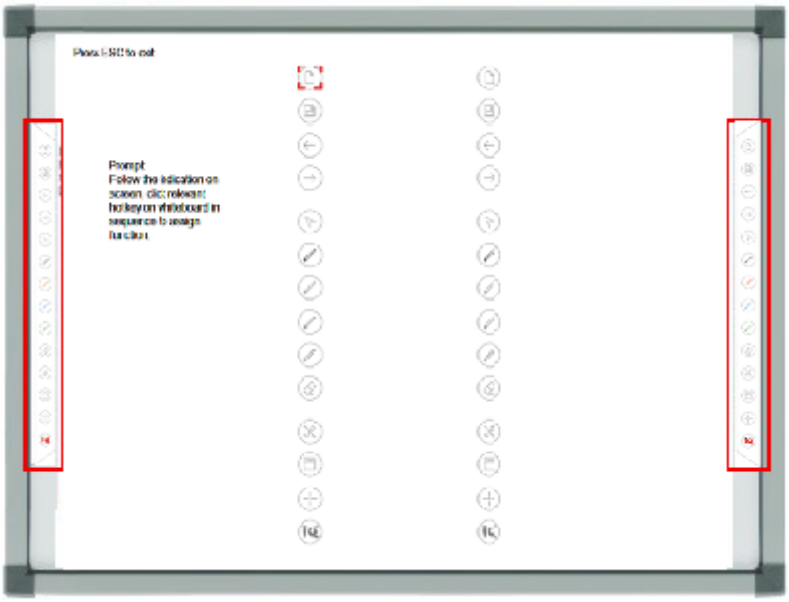
Step1. Select *"Setup Wizard > Main Board Hotkey Settings"* to enter Hotkey Settings window as follow



Step2. Enable Soft Hotkeys and click "*Adjust keys' function*", then you will enter the following window:

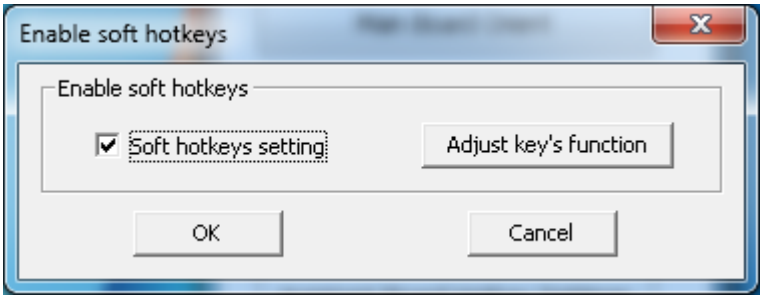

Press ESC to exit
Prompt:
Follow the indication on screen, click relevant hotkey on whiteboard in sequence to assign function.

Step3. Follow the indication on screen, click relevant hotkey in sequence. After the setting is completed, you can use these hotkeys.

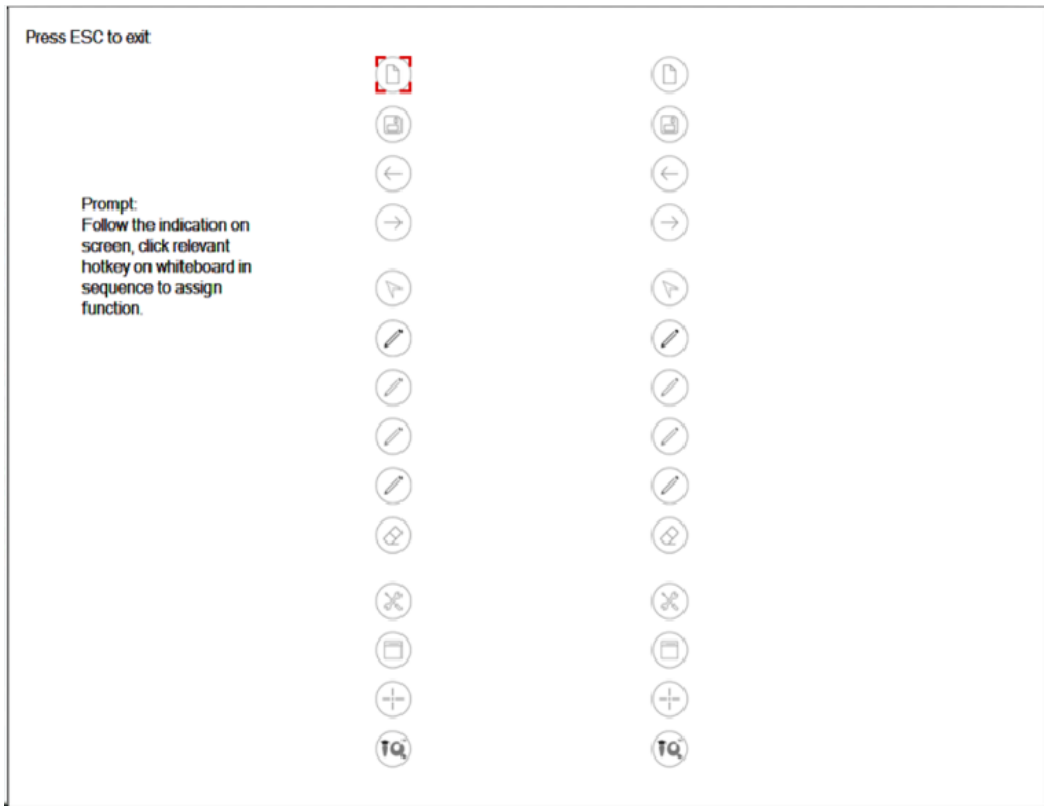


Hotkey Settings of Assistant Board

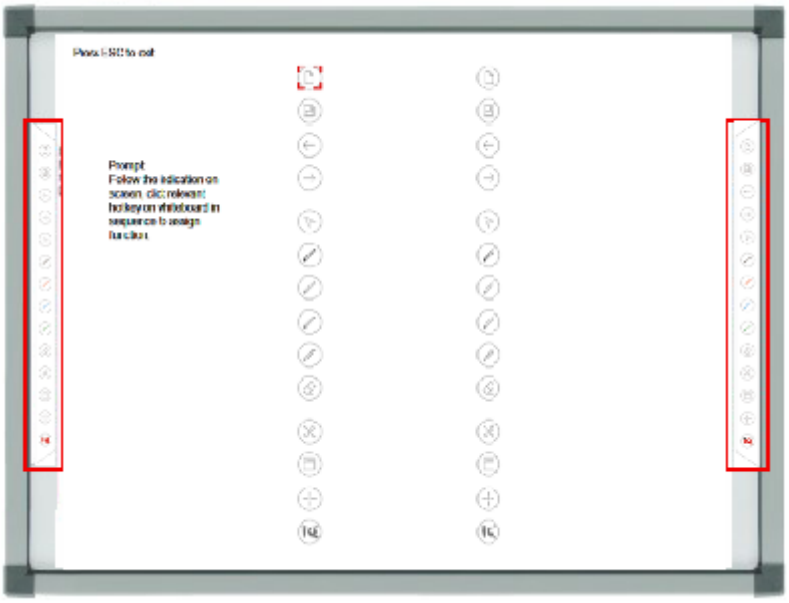
Step1. Select *"Setup Wizard > Assistant Board Hotkey Settings"* to enter Hotkey Settings window as follow



Step2. Enable Soft Hotkeys and click "*Adjust keys' function*", then you will enter the following window:


Press ESC to exit
Prompt:
Follow the indication on screen, click relevant hotkey on whiteboard in sequence to assign function.

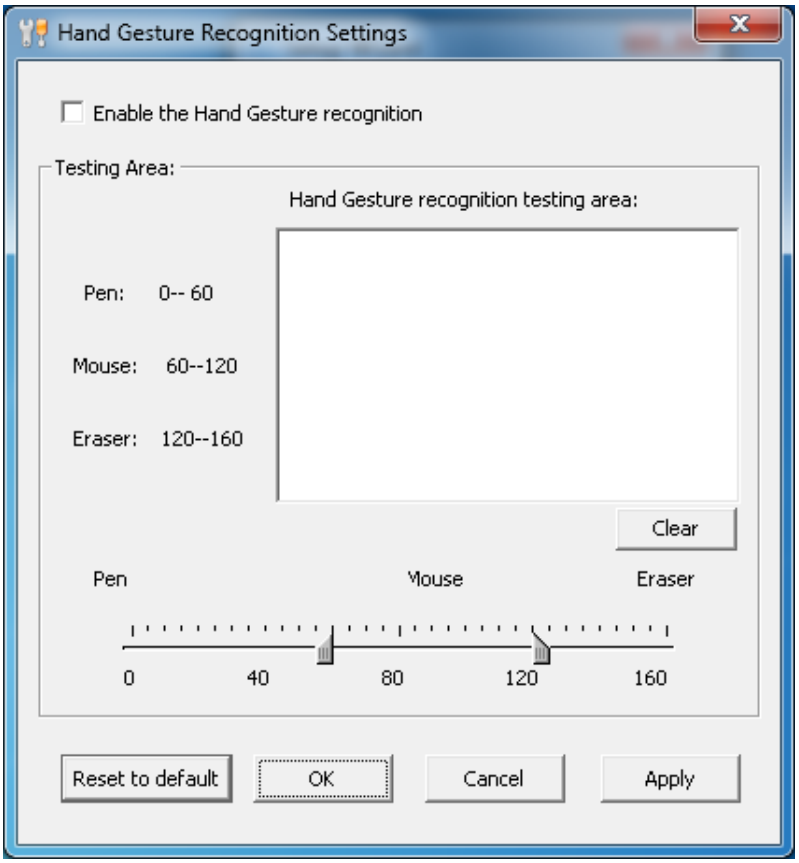
Step3. Follow the indication on screen, click relevant hotkey in sequence. After the setting is completed, you can use these hotkeys.



Note: *When setting the soft hotkeys, if some error occurs, you can press "ESC" key on the keyboard to exit the setting process, and then reset the hotkeys.*

7.5 Hand Gesture Recognition Settings

Step1. Select *"Setup Wizard > Gesture Recognition Settings*" as follow.



Customize Gesture Recognition

Enable Gesture Recognition

The default setting of gesture recognition is off. If you want to enable it, please select the *"Enable the Gesture Recognition"* check box.

Move slider to adjust

Move the sliders to change the value of each range for functions. The wider the value range, the easier you can perform the related function.

Gesture testing area

Once the gesture recognition is set already, you can still test it. Pressing with hand palm, the cursor will turn to the icon of each function, or the function's name will show on the testing area.

Reset to default

To reset Gesture Recognition sensitivity to default settings, click "*Reset to Default*".

Chapter 8 How to Use IQBoard

8.1 Basic Operations

For IQBoard MRQ2, you can use colorless writing pen or your finger to write or perform Mouse function. Following are the tips for some basic operations:

Single-click
If you use pen or finger, press the surface with the pen or finger tip at proper strength.

Double-click
If you use pen or finger, press the surface twice with the pen or finger tip at proper strength. Please make sure you press at the same point.

Drag
If you use pen or finger, press an object with the pen or finger tip and hold, then move the pen or finger tip to drag the object to the desired position.

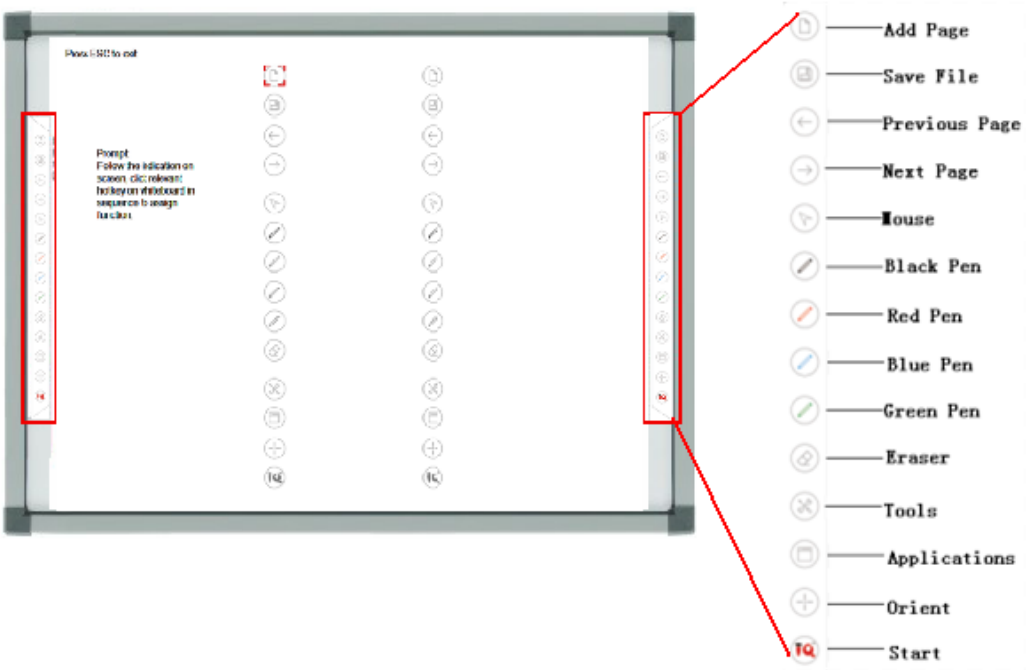
Write
If you use pen or finger, start IQBoard Software, select a drawing tool, then you can write or draw by pressing the surface with the pen or finger tip.

Right-click
If you use pen or finger, press the surface with the pen or finger tip, and hold for 2 seconds to popup the right-click menu. (IQBoard Software provide once or continuous right-click function, please refer to corresponding manual for instructions)

Switch back to Left-click: IQBoard Software will switch back to left-click automatically after once right-click.

Note: *Please set PC resolution to 1024 * 768, and close all energy-saving ways to avoid operational delay caused by sleep*

8.2 How to Use Hotkeys



Following is the introduction of above soft hotkeys.

Add Page **:** In Windows Mode, press this key to clear all annotations on screen. In Board Mode, Press this key to add a new page in current .cdf file.

Save File **:** In Windows Mode, press this key to save all annotations on screen to a page in current file. In Board Mode, press this key to save the current .cdf file.

Previous Page **:** Press this key to go to the previous page.

Next Page **:** Press this key to go to the next page.

Mouse **:** Press this key, you can use pen (finger) to achieve click, double-click, and drag function. When using IQBoard Software, press this key to switch between Windows Mode and Board Mode.

Pen **:** There are four “Pen” keys in different colors on the hotkey bar. Press one of these keys, you can write on the board in corresponding color. Press “Pen” twice to modify its properties.

Eraser **:** Press this key, you can erase the writing content on the board. In Windows Mode, press this key twice to popup the “Shut Down Windows” window.

Tools **:** Press this key to popup a quick access bar including shortcut icons for frequently used tools in IQBoard Software. You can add up to 8 shortcut icons in this bar.

Applications **:** Press this key to popup a quick access bar including shortcut icons for frequently used applications. You can add up to 8 shortcut icons in this bar.

Start : Press this key to start the IQBoard Software.

Orient : Press this key to popup the 9 points orientation interface.

Note:

1. Except the "Start" and "Orient" keys, all hotkeys are functional only after IQBoard Software is started.

2. The functions of "Frequently Used Tools", "Frequently Used Applications", "Orient" can be opened or closed by press the relevant hotkeys on the hotkey bar.

3. For IQBoard IRQ, when at Split-screen status in Dual-user Mode, the left hotkeys are for Teacher Pen, and the right for Student Pen. Teacher Pen can use the hotkeys including Mouse, 4. Freehand Drawing Tools, Eraser, Frequently Used Tools, Frequently Used Applications and Orient. Student Pen can use the hotkeys including Mouse, 4 Freehand Drawing Tools, Eraser, Frequently Used Tools and Frequently Used Applications. If it's not Split-screen status in Dual-user Mode, no difference between left and right hotkeys.

8.3 How to Use Gesture Recognition

8.3.1 Enable Gesture Recognition

The default setting of gesture recognition is off. If you want to enable it, please select "*Start >Programs > IQBoard MRQ2 Drivers V3.0 > Setup Wizard > Hand Gesture Recognition Settings*", and then select the *"Enable the Gesture Recognition"* check box.

8.3.2 Customize Gesture Recognition Sensitivity

Operation is the same as mentioned above.

8.3.2 Basic Operations

Single/Double click

Simply click the active area with the pen or finger tip quickly and make sure click at the same point.

Right click

When the left-click is on, press the whiteboard area for 2 seconds with your pen or finger to activate the right-click;

Activate IQBoard Software

Tap with five fingers or your palm to activate IQBoard Software.

When in Board, Playing, Windows and Reviewing Modes

Freehand Drawing Tools

Tap with one finger to achieve Freehand Drawing Tools.

Mouse

Tap with two fingers to imitate functions of Mouse.

Eraser

Tap with your palm to enable function of Eraser.

Hand Gesture of Windows

If you use IQBoard MRQ2 (Model: IRDK) in Windows 7/8, you can active multi-touch functions of Windows such as Zoom, Rotate, Previous Page and Next Page.

Note:

1. *By default, colorless writing pen touching the board will be recognized as pencil; while fist or palm touching the board will be recognized as Normal Circle Eraser.*
2. *If you have selected other Freehand Drawing Tool or Eraser before, IQBoard Software will use your previous selections.*
3. *If false identification happens, you can readjust the Gesture Recognition's sensitivity to suit your style as mentioned above*
4. *Hand Gesture Recognition function is not available in Dual-user Mode.*

8.4 Multi-user Writing

Before use Multi-user Mode, please make sure:

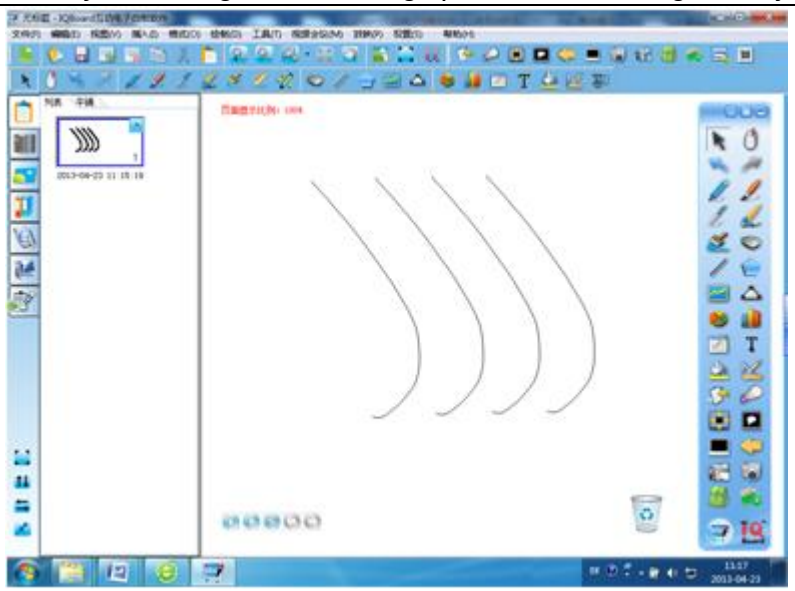
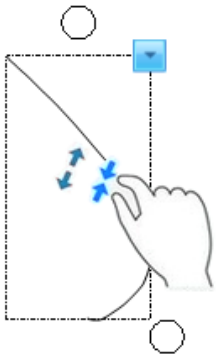
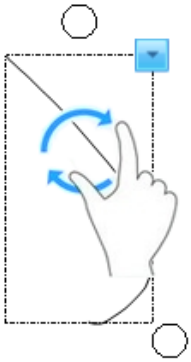
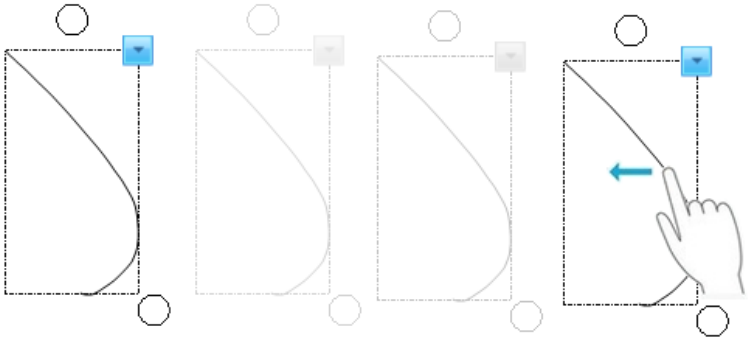
1. The operation system you are using is WIN7 or WIN8.
2. Multi-users writing is only available in the Multi-user Mode of IQ Interactive Education Platform with your touch hardware.
3. The user number depends on your product model.
4. Please check IQ Interactive Education Platform User Manual for more details.

To use Multi-users Mode:

1. Enter into Board Mode or Full Screen Mode in IQ Interactive Education Platform.
2. Select a Pen from Drawing Tools toolbar, such as Pencil, Brush Pen, Pen, Board

Brush, Washing Brush and Creative Pen, and then multi-users can write simultaneously.

3. You can rotate or zoom one or several objects selected in the whiteboard page by Gesture Recognition in Windows OS.
4. Tick the *Inertial Movement* under *"System Setting> Other Settings"*, the object will speed up automatically according to the moving speed when moving the object.

Multi-user Mode	 Tips: Multi-users should use the same pen tool to write in Multi-user Mode.
Gesture Recognition (Zoom and Rotate)	 Zoom  Rotate
Inertial Movement	 Select and pull the object to move it forward automatically.

8.5 MRQ2 Mode

Before use MRQ2 Mode, please make sure:

1. The operation system you are using is WIN7 or WIN8.

2. The computer you are using has normally connected 2 projectors.

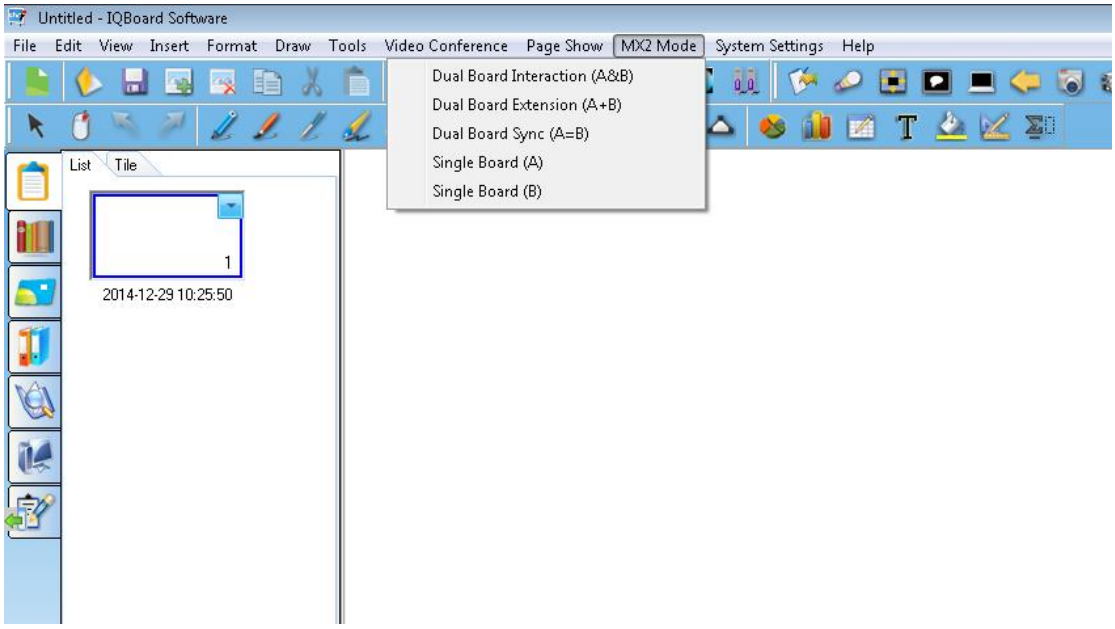
3. You have completed Projector Display Settings, Tablet PC Settings and Orient Settings of Main board and Assistant board.

4. Multi-users writing is only available in the Dual-user Mode of IQ Interactive Education Platform with your touch hardware.

5. Please refer to IQ Interactive Education Platform User Manual for more details.

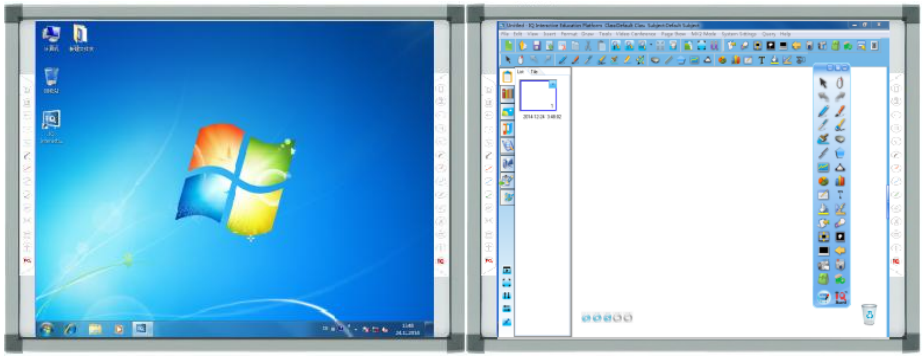
To use MRQ2 Mode:

Enter IQ Interactive Education Platform, click *"MRQ2 Mode"* on the common Tools toolbar to popup the pull-down menu. There are 4 modes provided as follow: Single Board (A/B), Dual Board Sync (A=B), Dual Board Interaction (A&B) and Dual Board Extension (A+B).

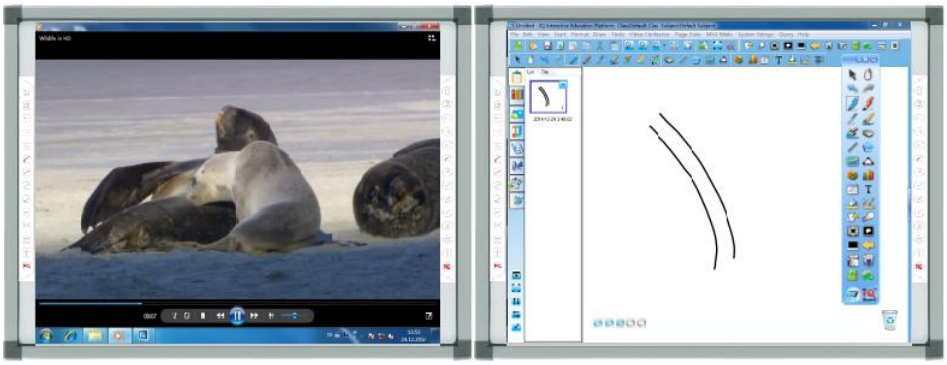

Untitled - IQBoard Software
File Edit View Insert Format Draw Tools Video Conference Page Show MX2 Mode System Settings Help
Dual Board Interaction (A&B)
Dual Board Extension (A+B)
Dual Board Sync (A=B)
Single Board (A)
Single Board (B)
List Tile
1
2014-12-29 10:25:50

Dual Board Interaction (A&B)

1) When the MRQ2 Mode is activated, enter into Dual Board Interaction (A&B) by default in IQ Interactive Education Platform. The Windows desktop will be displayed on the main-board, while the software will be displayed on the vice-board as follow.

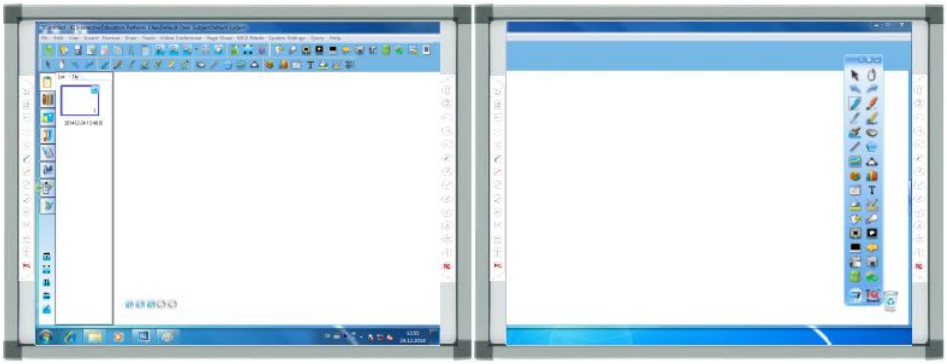


2) You can play PPT or videos on the main-board. On the vice-board, you can write on the software meantime.

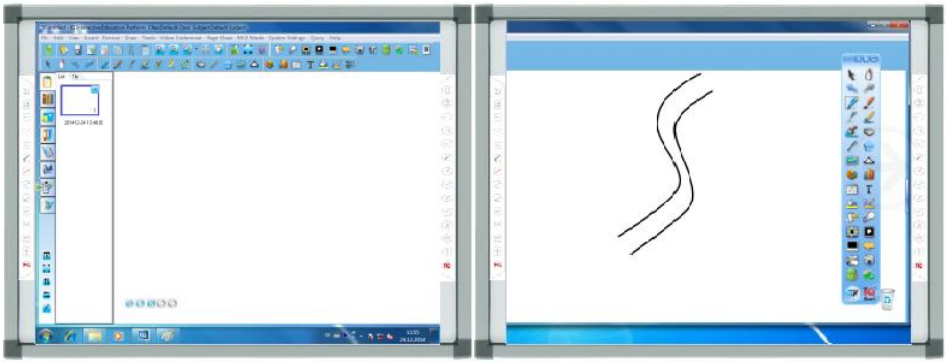


Dual Board Extension (A+B)

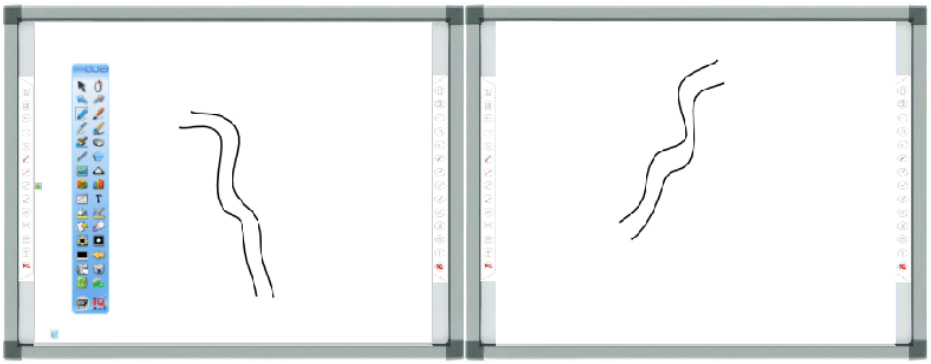
1) Select *"Dual Board Extension (A+B)"* on the pull-down menu of MRQ2 Mode, then the software will be stretched on the two boards as follow.



2) In Board Mode or Full Screen Mode, two users can write on the same board and save all annotations to a file.

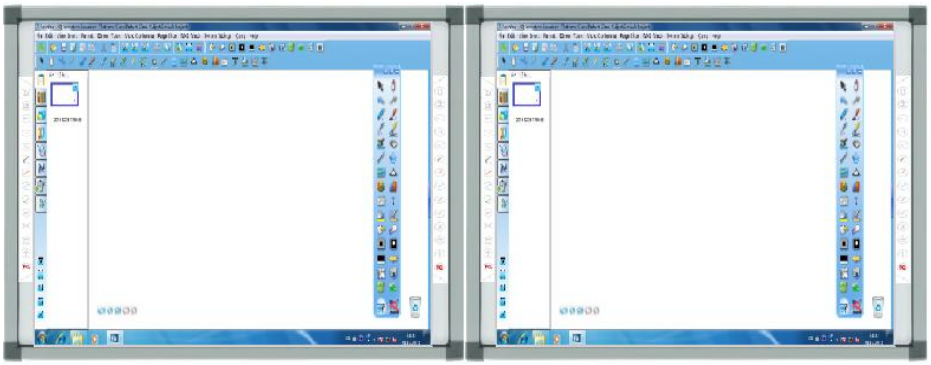


3) You can also click the icon on the common Tools toolbar to enter Dual-user Mode. Then up to 4 users can write on the two boards at the same time.



Dual Board Sync (A=B)

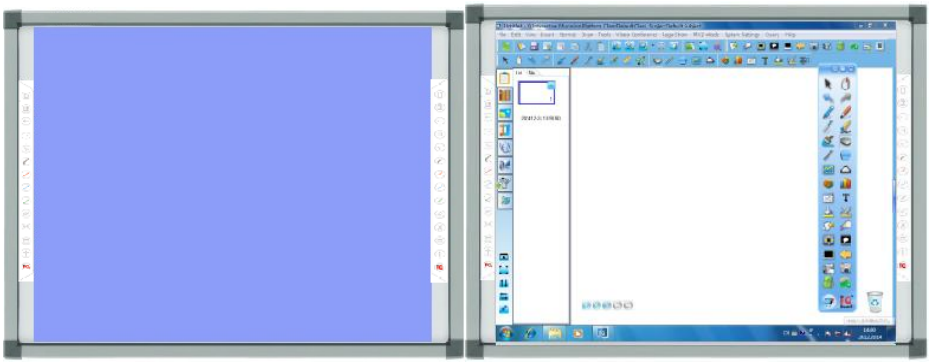
1) Select *"Dual Board Sync (A=B)"* on the pull-down menu of MRQ2 Mode, then the two boards display the same screen as follow.



2) Two users can write on the same board, and operations on one board can be also displayed on the other in real time.

Single Board (A/B)

1) Select *"Single Board (A)"* or *"Single Board (B)"* on the pull-down menu of MRQ2 Mode, and then only one screen can be displayed on a board.



Chapter 9 FAQ

1. What kind of orientation precision should I select?

It depends on your requirement of orientation time and accuracy. You have the following choices:

Quick orientation (4 points): for fast orientation

Standard orientation (9 points): for most of situations

Precise orientation (20 points): for high-definition system

2. When operating and writing on the whiteboard, the position of pen or finger doesn't match the position of cursor.

1) The relevant location of projector and white has been changed. Please re-orient the whiteboard.

2) The projection area has trapezoid distortion, please adjust the projection area, and re-orient the whiteboard.

3) When orienting the whiteboard, the pen or finger is not perpendicular to the surface, please re-orient with correct posture.

4) When orienting the whiteboard, the pen or finger tip missed the green center of the red orienting cross, please re-orient the whiteboard.

5) The filters around whiteboard have been shaded by other objects, such as dust or chalk dust and so on. Please keep filters clean.

3. When I operate and write on the whiteboard, the system response is slow, or the stroke is intermittent.

The computer is not under normal running or the memory is occupied too much. Please close some applications or restart the computer.

The operating or writing force is uneven. Sometimes the force is too light to be sensed.

Initializing hardware failed. Please reconnect the cable with the board to initialize the hardware again.

4. When I operate and write on the board, the system doesn't respond.

Please reconnect the cable with the board to initialize the hardware again.

5. What if part area of the board can not work or write?

1) Hardware initialization failed. Please reconnect USB cable and try again when hardware initialization is finished.

2) Make sure that you do not touch the board when the hardware initialization is processing. If you touch the board, it will cause this problem. Please reconnect the USB cable or restart computer then try to operate or write on the board after hardware initialization is finished.

6. The pen tip worn out.

Common abrasion will not affect normal operation. When the pen point is severely abraded, you can purchase it from local dealer.

7. When I use Gesture Recognition function, the whiteboard often misinterprets my intent.

When pressing the surface with pen, finger or palm, please use certain strength. If the problem persists, please readjust the Gesture Recognition's sensitivity to suit your style.

You can enable *"Perform Hand Gesture to Adjust"* to readjust the functions.

For other questions, please consult our service center or local dealer.

Chapter 10 Cautions and Maintenance

10.1 Whiteboard

For the interactive whiteboard that do not support normal marker (no “W” included in the product model), please try not to use normal marker to write on the surface. Before cleaning, please shut down the computer and switch the projector into standby mode to make the dirt more obvious. In case of normal dirt, spray some water or detergent on the surface, then use the paper to wipe the dirt out. If you leave some ink trail by mistakenly using the fountain pen, please buy some special whiteboard detergent and spray it on the soft cloth to clean the surface. For cleaning the mark left by the permanent marker, first paint some ink of dry erase marker on the mark (the ink of dry erase marker can dissolve the ink of permanent marker), then use soft cloth to clean. If the mark still exists, spay some whiteboard detergent, and clean it out.

Note: *Please do not use other organic solvent for cleaning. Otherwise it may permanently damage the surface.*

For the interactive whiteboard that supports normal marker, you can use normal whiteboard eraser and wet cloth to clean.

Note: *Clean the frequently used whiteboard once a week to keep the best definition.*

Please do not use sharp or pointed objects to scratch the surface and frame, otherwise the scratched part may be damaged, and won’t work normally. During the usage, do not knock or press the surface fiercely with your pen, wand or finger to avoid the damage of whiteboard surface, pen and wand. You can use sand wax to eliminate the scratch on the surface, and use dry cloth to clean out.

Since the mobile stand (or the wall hanging parts) is designed only to support the weight of the whiteboard, please do not put the additional weight or pressure on the whiteboard. Please keep the whiteboard away from intense collision, shaking, pressing and do not install it by force, otherwise it may cause cracking, short circuit and surface distortion.

Please do not use and install interactive whiteboard in dusty, foggy, wet and inclement environment. Keep it away from sharp object, heat source, corrosive chemicals, fire, and water. Please do not put the whiteboard in the outlet of hot air, otherwise the material will deteriorate and its life-span will be shortened.

To avoid harm from improper operation, please do not use chair or other tool to help

short students use the whiteboard. If students are not tall enough to use the whiteboard, please low down the whiteboard under the help of the professional technician.

10.2 USB Cable

Do not put the USB cables on the floor where people might stumble over them. If you have to do so, straighten them and use insulated adhesive tape or cable with contrast color to tie them up. Please don't bend the USB cable excessively. Exposing the USB cable outside for a long time may shorten its life-span and cause other unnecessary damages, so please keep it carefully. If you use the whiteboard in the meeting room or classroom, please fix the cable along the cable alley.

10.3 Projection

Face the whiteboard when operating and writing on the projected image, stand aside when you turn back to face the students. Please do not look at the projector directly to avoid its strong light damaging your eyesight. Instruct students how to use the whiteboard, tell them not to face the projector directly.

10.4 Transport

Please handle with care, and do not put any weight on the surface so as to avoid the surface distortion and damage. Lay the whiteboard upright during the transportation or storage. For long distant transportation, it is suggested to repack the whiteboard with the original packing. If the original packing is unavailable, insert some protective padding between the components to protect them from intense vibration or crash. Please avoid vibration, dampness, electricity, water and pressure in transportation.

10.5 Part Replacement

Please do not disassemble the whiteboard or modify its inner structure so as to prevent accident or trouble. For maintenance or part replacement, please resort to our authorized technician. Make sure that you use our designated part or the one with the same specification when replacing.